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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,516	10/05/2003	Igor V. Touzov		2515	
34185 IGOR V TOUZ		05/31/2007 EXAMINER			
212 CRESTONE DRIVE			PHAM, HOA Q		
CARY, NC 27513			ART UNIT	PAPER NUMBER	
			2886		
					
		•	MAIL DATE	DELIVERY MODE	
			05/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/605,516	TOUZOV, IGOR V.				
		Examiner	Art Unit				
		Hoa Q. Pham	2886				
The MAILING Period for Reply	DATE of this communication app	ears on the cover sheet with the	correspondence address				
 WHICHEVER IS LON Extensions of time may be after SIX (6) MONTHS from If NO period for reply is specified. Failure to reply within the second any reply received by the Control 	ATUTORY PERIOD FOR REPLY NGER, FROM THE MAILING DA available under the provisions of 37 CFR 1.13 in the mailing date of this communication. Excified above, the maximum statutory period we et or extended period for reply will, by statute, office later than three months after the mailingment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (CATION) THE OF THIS COMMUNICATION (CATION) And I will expire SIX (6) MONTHS from Cause the application to become ABANDONI	imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1) Responsive to	communication(s) filed on 01 M	arch 2007.					
2a) This action is F		action is non-final.					
3) Since this appl	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accor	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> i	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> i	6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s)	7) Claim(s) is/are objected to.						
8) Claim(s)	are subject to restriction and/or	election requirement.					
Application Papers							
9) The specificatio	n is objected to by the Examine	r.					
10)⊠ The drawing(s)	10)⊠ The drawing(s) filed on <u>05 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may no	ot request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C.	. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
			·				
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date <u>10/5/03</u> . 6) Other:							

DETAILED ACTION

Election/Restrictions

1. Applicant's election in the reply filed on 3/1/07 is acknowledged. Because applicant did not include an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143), the election has been treated as an election without traverse (MPEP § 818.03(a)). However, since applicant amends claims 13, 16, and 19 dependent on claims 1, 13 and 16, respectively; therefore, all the claims (1-20) will be examined as below.

Drawings

2. The drawings filed on 10/5/03 have been accepted.

Claim Objections

- 3. Claims 1-20 are objected to because of the following informalities:
- a. The claims do not include a ";" after each sentence, for example, claim 1, line 6, a ";" should be inserted at the end.
- b. It is suggested that the language "comprising steps of:" should be used in the method claims. Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 5. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. Claim 1, line 5, has no antecedent basis for "video source".
- b. Claims 4-5 are "apparatus claims" which depend on method claim 1; however, there is no relationship between the elements of apparatus claims with respect to the steps in method claim.
- c. Claim 6 has the same problem as of claims 1 and 4-5. There is no connection between the "light source", "optical elements" and "capture device" and steps ii), iii) and iv).
 - d. Claims 9-10 has the same problem as of claims 4-5 above.
- e. Claim 12, line 1 is confused; what does applicant means by "Apparatus of claim 9 or clam[claim] 10 further implementing method of claim 10"?
- f. Claim 13, line 2 has no antecedent basis for "micromechanical or micro electromechanical elements". In addition, there is no connection between claims 13 and claim 1.
 - g. Claim 14 has similar problem as claim 13.
- h. Claim 15 depends on claim 6 and disclose "a second method for measuring deformation of plurality of microcantilevers", thus, the claim fails to further limit the subject matter of claim 6.
- i. Claims 16 and 19-20 disclose an apparatus claim which depends on claim 13; however, there is no connection between claims 16 and 13.

j. Claims 17-18 have the same problem as in claim 15 which discloses two methods in one claim.

K. Claims 2-3, 7-8, 11 are dependent; therefore, inherit the deficiencies of the claims on which they depend.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thirion et al (2002/0012478).

Regarding claims 1-3, 6-8, Thirion et al discloses an image processing electronic device for detecting dimensional variations in which digital image of the same region taken at different times are compared and it is inherent that the comparison uses at least one pixel from said first image fragment and at least one different pixel from said second image fragment. Thirion et al does not explicitly teach that the image is from a video source; however, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the basic device of Thirion et al for extracting the image fragments from video source or digital video stream because the device would function in the same manner.

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Art Unit: 2886

Regarding claims 4-5, 9-10, 12-14, and 16-20 are apparatus claims which depend on method claims; therefore, the patentable weight is not given and are rejected according to the method claims.

Regarding claim 11, see paragraph [0004] for the use of x-ray scanner.

Regarding claim 15, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the method of Thirion et al to determine the deformations of a plurality of microcantilevers because it does not matter what types of object to be tested is, the device would using the same method.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tannenbaum et al (6,535,623) teaches the comparison between the identical locations of image data in different time images and Japan reference (JP-2000-165519) discloses step of comparing image data of same area at different photography time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoa Q. Pham whose telephone number is (571) 272-2426. The examiner can normally be reached on Monday through Friday, 8:00AM TO 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarifur Chowdhury can be reached on (571) 272-2287. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hoa Q. Pham Primary Examiner Art Unit 2886

HP May 28, 2007